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CATALOG

FAST ETHERNET , GIGABIT ETHERNET , SFP MINI GBIC , XFP , SFP+

MEDIA CONVERTER

NEW 2016

LINK Media Converter Product Guide

Part Number	Type	Wavelength (nm)	Port 1		Port 2		Fiber (Core)	Distance (m)	Page
			Data Rate	Connector	Data Rate	Connector			
Mini Media Converter									
UT-0214	Fast Ethernet	1310	10/100Base-TX	RJ45	100Base-FX	ST (MM)	2	2,000	1-2
UT-0216	Fast Ethernet	1310	10/100Base-TX	RJ45	100Base-FX	SC (MM)	2	2,000	1-2
UT-0216-SM30	Fast Ethernet	1310	10/100Base-TX	RJ45	100Base-FX	SC (SM)	2	30,000	1-2
UT-0216-SM60	Fast Ethernet	1310	10/100Base-TX	RJ45	100Base-FX	SC (SM)	2	60,000	1-2
UT-0216-SM100	Fast Ethernet	1550	10/100Base-TX	RJ45	100Base-FX	SC (SM)	2	100,000	1-2
UT-0215TS-20	WDM Fast Ethernet	1310/1550	10/100Base-TX	RJ45	100Base-FX	SC (SM)	1	20,000	1-2
UT-0215RS-20	WDM Fast Ethernet	1550/1310	10/100Base-TX	RJ45	100Base-FX	SC (SM)	1	20,000	1-2
UT-0215TS-40	WDM Fast Ethernet	1310/1550	10/100Base-TX	RJ45	100Base-FX	SC (SM)	1	40,000	1-2
UT-0215RS-40	WDM Fast Ethernet	1550/1310	10/100Base-TX	RJ45	100Base-FX	SC (SM)	1	40,000	1-2
Enhance Media Converter									
UT-0214E	Fast Ethernet	1310	10/100Base-TX	RJ45	100Base-FX	ST (MM)	2	2,000	3-4
UT-0216E	Fast Ethernet	1310	10/100Base-TX	RJ45	100Base-FX	SC (MM)	2	2,000	3-4
UT-0216E-SM30	Fast Ethernet	1310	10/100Base-TX	RJ45	100Base-FX	SC (SM)	2	30,000	3-4
UT-0216E-SM60	Fast Ethernet	1310	10/100Base-TX	RJ45	100Base-FX	SC (SM)	2	60,000	3-4
UT-0216E-SM100	Fast Ethernet	1550	10/100Base-TX	RJ45	100Base-FX	SC (SM)	2	100,000	3-4
UT-0215ETS-20	WDM Fast Ethernet	1310/1550	10/100Base-TX	RJ45	100Base-FX	SC (SM)	1	20,000	5-6
UT-0215ERS-20	WDM Fast Ethernet	1550/1310	10/100Base-TX	RJ45	100Base-FX	SC (SM)	1	20,000	5-6
UT-0215ETS-40	WDM Fast Ethernet	1310/1550	10/100Base-TX	RJ45	100Base-FX	SC (SM)	1	40,000	5-6
UT-0215ERS-40	WDM Fast Ethernet	1550/1310	10/100Base-TX	RJ45	100Base-FX	SC (SM)	1	40,000	5-6
Industrial Media Converter									
UT-0214AI	Fast Ethernet	1310	10/100Base-TX	RJ45	100Base-FX	ST (MM)	2	2,000	7-8
UT-0216AI	Fast Ethernet	1310	10/100Base-TX	RJ45	100Base-FX	SC (MM)	2	2,000	7-8
UT-0216AI-SM20	Fast Ethernet	1310	10/100Base-TX	RJ45	100Base-FX	SC (SM)	2	30,000	7-8
UT-0216AI-SM60	Fast Ethernet	1310	10/100Base-TX	RJ45	100Base-FX	SC (SM)	2	60,000	7-8
UT-0215AI-TS20	WDM Fast Ethernet	1310/1550	10/100Base-TX	RJ45	100Base-FX	SC (SM)	1	20,000	9-10
UT-0215AI-RS20	WDM Fast Ethernet	1550/1310	10/100Base-TX	RJ45	100Base-FX	SC (SM)	1	20,000	9-10
UT-0215AI-TS40	WDM Fast Ethernet	1310/1550	10/100Base-TX	RJ45	100Base-FX	SC (SM)	1	40,000	9-10
UT-0215AI-RS40	WDM Fast Ethernet	1550/1310	10/100Base-TX	RJ45	100Base-FX	SC (SM)	1	40,000	9-10
Gigabit Ethernet Media Converter									
UT-1310	Gigabit Ethernet	-	10/100/1000Base-T	RJ45	1000Base-SX/LX	SFP	-	-	11-12
UT-1314	Gigabit Ethernet	850	10/100/1000Base-T	RJ45	1000Base-SX	LC (MM)	2	220/550	11-12
UT-1316	Gigabit Ethernet	850	10/100/1000Base-T	RJ45	1000Base-SX	SC (MM)	2	220/550	11-12
UT-1314-10	Gigabit Ethernet	1310	10/100/1000Base-T	RJ45	1000Base-LX	LC (SM)	2	10,000	13-14
UT-1316SM	Gigabit Ethernet	1310	10/100/1000Base-T	RJ45	1000Base-LX	SC (SM)	2	10,000	13-14
19" Rack mount Chassis									
UT-3012	Chassis	19" Rack-Mount 12-slot Stand alone Media Converter Chassis (AC 100-240V)							15-16
UT-3012D	Chassis	19" Rack-Mount 12-slot Stand alone Media Converter Chassis (DC -48V)							15-16
UT-3013	Power Supply	75W AC Modular Power Supply with High MTBF for UT-3012 (AC 100-240V)							15-16
UT-3013D	Power Supply	75W DC-48V Modular Power Supply for UT-3012D (DC -48V)							15-16

Part Number	Type	Wavelength (nm)	Port 1	Port 2		Fiber (Core)	Distance (m)	Page
				Data Rate	Connector			
SFP, 1.25G								
UT-9125-00	Gigabit Ethernet	850	SFP	1000Base-SX	LC (MM)	2	220/550	23-24
UT-9125-02	Gigabit Ethernet	1310	SFP	1000Base-LX	LC (MM)	2	2,000	23-24
UT-9125-10	Gigabit Ethernet	1310	SFP	1000Base-LX	LC (SM)	2	10,000	23-24
UT-9125-20	Gigabit Ethernet	1310	SFP	1000Base-LX	LC (SM)	2	20,000	23-24
UT-9125-40	Gigabit Ethernet	1310	SFP	1000Base-LX	LC (SM)	2	40,000	23-24
UT-9125-80	Gigabit Ethernet	1550	SFP	1000Base-ZX	LC (SM)	2	80,000	23-24
UT-9125-T	Gigabit Ethernet	-	SFP	1000Base-T	RJ45 (UTP)	-	100	25-26
XFP, 10G								
UT-9113-20	WDM Gigabit Ethernet	1310/1550	SFP	1000Base-LX	LC (SM)	1	20	27-28
UT-9114-20	WDM Gigabit Ethernet	1550/1310	SFP	1000Base-LX	LC (SM)	1	20	27-28
UT-9210-00	10Gigabit Ethernet	850	XFP	10GBase-SR	LC (MM)	2	300	29-30
UT-9210-10	10Gigabit Ethernet	1310	XFP	10GBase-LR	LC (SM)	2	10,000	29-30
UT-9210-40	10Gigabit Ethernet	1550	XFP	10GBase-ER	LC (SM)	2	40,000	29-30
UT-9210-80	10Gigabit Ethernet	1550	XFP	10GBase-ZR	LC (SM)	2	80,000	29-30
SFP+, 10G								
UT-9310-00	10Gigabit Ethernet	850	SFP+	10GBase-SR	LC (MM)	2	300	31-32
UT-9310-10	10Gigabit Ethernet	1310	SFP+	10GBase-LR	LC (SM)	2	10,000	31-32
UT-9310-40	10Gigabit Ethernet	1550	SFP+	10GBase-ER	LC (SM)	2	40,000	31-32
UT-9310-80	10Gigabit Ethernet	1550	SFP+	10GBase-ZR	LC (SM)	2	80,000	31-32
SFP+ Cable, 10G								
UT-9601	10Gigabit Ethernet	-	SFP+	-	-	Copper	1	33
UT-9603	10Gigabit Ethernet	-	SFP+	-	-	Copper	3	33
UT-9605, UT-9605A	10Gigabit Ethernet	-	SFP+	-	-	Copper	5	33
UT-9607, UT-9607A	10Gigabit Ethernet	-	SFP+	-	-	Copper	7	33
UT-9610, UT-9610A	10Gigabit Ethernet	-	SFP+	-	-	Copper	10	33
UT-9615A	10Gigabit Ethernet	-	SFP+	-	-	Copper	15	33

Part Number	Type	Wavelength (nm)	Port 1	Port 2	Fiber (Core)	Distance (m)	Page
			Connector	Connector			
RS-232 Media Converter							
UT-4004	RS-232	1310	DB9(Male)	ST (MM)	2	2,000	34-35
UT-4006	RS-232	1310	DB9(Male)	SC (MM)	2	2,000	34-35
UT-4006SM-30	RS-232	1310	DB9(Male)	SC (SM)	2	30,000	34-35
UT-4006SM-60	RS-232	1310	DB9(Male)	SC (SM)	2	60,000	34-35
UT-4206SM-100	RS485/422	1550	DB9(Male)	SC (SM)	2	100,000	34-35
UT-4006SM-120	RS-232	1550	DB9(Male)	SC (SM)	2	120,000	34-35
RS-485/422 Media Converter							
UT-4204	RS485/422	1310	Terminal Block	ST (MM)	2	2,000	36-37
UT-4206	RS485/422	1310	Terminal Block	SC (MM)	2	2,000	36-37
UT-4206SM-30	RS485/422	1310	Terminal Block	SC (SM)	2	30,000	36-37
UT-4206SM-60	RS485/422	1310	Terminal Block	SC (SM)	2	60,000	36-37
UT-4206SM-100	RS485/422	1550	Terminal Block	SC (SM)	2	100,000	36-37
UT-4206SM-120	RS485/422	1550	Terminal Block	SC (SM)	2	120,000	36-37

CATALOG MEDIA CONVERTER

UT-021X Series
10/100Base - TX to 100Base - FX Mini Converter

LINK®
American Standard

UT-0214

UT-0216

Product Introduction & Benefits

The UT-021X series is among LINK answers to expanding existing Fast Ethernet networks. The easy implementation and expansion of 100Base-TX/FX networks can be further assured with this converter. The converter is completely transparent when connected so the network performs exactly the way it did before - only now, it allows the co - existence of both copper and fiber mediums. Added flexibility is available with ST, SC, and WDM Simplex SC connectors. Extra distances are possible with the singlemode version delivering up to 100 km connectivity per transmitted segment.

The UT-021X allows the installation of fiber cabling anywhere within a Fast Ethernet network topology by directly connecting to existing devices.

Its compact modular design facilitates deployment in a narrow desktop location to save space.

Ordering Information :

UT-0214 : 10/100Base - TX to 100Base - FX Multimode, Media, Converter (ST Connector, 2km)

UT-0216 : 10/100Base - TX to 100Base - FX Multimode, Media Converter (SC Connector, 2km)

UT-0216 - SM30/60/100 (km) : 10/100Base - TX to 100Base - FX Single Mode, Media Converter
(SC Connector, 30/60/100 km)

UT-0215TS - 20/40 (km) : 10/100Base - TX to 100Base - FX Single Mode, Single Fiber, WDM Media Converter,
Transmitter TX1310nm/RX1550nm, (SC Simplex, 20/40km)

UT-0215RS - 20/40 (km) : 10/100Base - TX to 100Base - FX Single Mode, Single Fiber, WDM Media Converter,
Receiver TX1550nm/RX1310nm, (SC Simpex, 20/40km)

* WDM Single Fiber Converters must be installed with Transmitter and Receiver in pairs

Main Features :

- Complies with IEEE802.3 (10BASE-T), IEEE802.3u (100BASE-TX/FX)
- Extends distances ranging from 2km (multimode fiber) to 100km (singlemode fiber)
- NWay Auto-negotiation support on RJ-45 port
- Auto-Negotiation of duplex(HDX/FDX) on RJ-45 port
- Auto MDI/MDI-X support on RJ-45 port
- Status LED's for TX,FX LINK/ACT, POWER,100M to easily monitor network status
- External power supply
- FCC Class A & CE approved
- RoHS Compliant
- Included AC power adapter 220 VAC / 12 VDC, 1A

FCC Class A   CE Approval

CATALOG MEDIA CONVERTER

LINK®
American Standard

Standards :

IEEE 802.3 (10BASE-T)
IEEE 802.3u (100BASE-TX/FX)

Port :

UTP Connector : 1 x RJ-45 type
Fiber Optic Connector : ST or SC type (Only SC type for Single Mode)

Max Distance :

UTP : 100 meters (Category5/5E or better)
Fiber : 2km (Multimode)
　　　 30 - 120km (Single Mode)
　　　 20 - 40km (Single Mode / Single Fiber, WDM)

Emissions :

FCC Part 15 of Class A & CE approved

Weight :

180 g

Dimensions :

86.6 x 59.4 x 23.4 mm (D x W x H)

Power Supply :

AC 100 ~ 240V 47/63Hz Input,
DC 12V 1A Output

Power Consumption :

2.8W

Temperature :

Operating : 0° C to 50° C
Storage : -25° C to 70° C

Humidity :

Operating : 10% to 80% RH
Storage : 5% to 90% RH

Unit LED :

PWR : Green - Illuminated for normal operation
TX LNK/ACT : Green - Illuminated indicates receiving link pulses from compliant
　　　　　　　　　copper device and flashes when data being sent / received
FX LNK/ACT : Green - Illuminated indicates receiving link pulses from compliant fiber
　　　　　　　　　device and flashes when data being sent / received
100 : Green - Illuminated when data packets are being transmitted at 100Mbps

Applications :

Fast Ethernet Switch　　　　　　　　　Fast Ethernet Switch

Server

Converter　　　　Converter

Fiber
UTP/STP
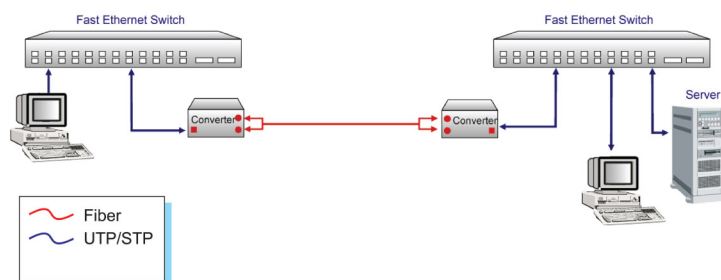
The following illustrates typical applications for the UT-021X series. The actual distances will depend on several factors including the quality of cables used and the terminal equipment employed.

CATALOG MEDIA CONVERTER

UT-021XE Series
Enhanced 10/100Base - TX to 100Base - FX Media Converter

UT-0214E

UT-0216E

Product Introduction & Benefits

The UT-021XE Media Converter is a cost-effective, feature-packed solution for expanding or extending an existing Ethernet/Fast Ethernet network.

The converter boasts enhanced with such features as remote loop back testing, auto-negotiation, and link fault signaling for total reliability, It also features seven DIP switches for manual activation of the enhanced features.

This gives the UT-021XE the ability to be quickly integrated into a network configuration.

The UT-021XE can support a variety of fiber optic cables and connectors that can extend distances (up to 100km) as well as offering flexibility in the migration to 100Base - FX networks! Several converters can be simultaneously installed by using the UT-3012 12-slot 19" rack-mount chassis converter chassis.

Ordering Information :

UT- 0214E : Enhanced 10/100Base-TX to 100Base-FX Multi-mode, Media Converter (ST Connector, 2km)

UT- 0216E : Enhanced 10/100Base-TX to100Base-FX Multi-mode, Media Converter (SC Connector, 2km)

UT- 0216E-SM30/60/120 : Enhanced 10/100Base-TX to 100Base-FX Single Mode, Media Converter
(SC Connector, 30/60/120 km)

Main Features :

- Device DIP switches allow multiple configuration options
- Automatic MDI/MDI-X selection on RJ-45 port
- Auto-negotiation, NWay support on RJ-45
- Link Fault Signaling (LFS) Suitable for fedundantcy link
- Remote loop back test
- LEDs for at-a-glance device status
- Extends distances ranging from 2km (multi-mode fiber) to 100km (single mode fiber)
- Store-and-forward at full wire speed
- External power supply
- FCC Class A & CE approved.
- RoHS Compliant
- Included AC power adapter 220 VAC / 12 VDC, 1A

FCC Class A

CE Approval

Standards :

IEEE 802.3 (10BASE-T Ethernet);
IEEE 802.3u (100BASE-TX/FX Fast Ethernet)

Port :

UTP Connector : 1x RJ-45 type
Fiber Optic Connector : 1x SC or ST types (Only SC type for Single Mode)

Max Distance :

UTP : 100 meters (Category 5/5E or better)
Fiber Optic : 2km (Multimode)
     30 - 120km (Singlemode)

Emissions :

FCC Part 15 of Class A & CE approved

Weight :

160 g

Dimensions :

109.2 x 73.8 x 23.4 mm (D x W x H)

Power Supply :

AC 100 ~ 240V 47/63Hz Input,
DC 12V 1A Output

Power Consumption :

2.8W

Temperature :

Operating : 0º C to 50º C
Storage : -25º C to 70º C

Humidity :

Operating : 10% to 80% RH
Storage : 5% to 90% RH

Unit LED :

100 : Green - Illuminated when data packets are being teansmitted at 100Mbps
LFS : Red - Illuminated when a break or disruption exists in copper or fiber links
LNK/ACT : Green - Illuminated indicates receiving link pulses from compliant device
        - Flashing to indicate data packets being sent / received
FDX/COL : Amber - Flashing to indicate unit is in full-duplex mode
        - Flashing to indicate collision
PWR : Green - Illuminated to indicate unit is operating under normal power

Switches :

DIP 1 - Enables / disables auto-negotiation
DIP 2 - Copper port (RJ45) duplex mode; full-duplex or half-duplex
DIP 3 - Copper port (RJ45) data bit rate; 10Mbps or 100Mbps
DIP 4 - Fiber port duplex mode; full-duplex or half-duplex
DIP 5 - Enables / disables link fault signaling (LFS)
DIP 6 - Enables / disables local loop back (LLBK)
DIP 7 - Enables / disables remote loop back (RLBK)

Applications :

The following illustrates typical applications for the UT-021XE series. The actual distances will depend on several factors including the quality of cables used and the terminal equipment employed.

CATALOG MEDIA CONVERTER

UT-0215E Series
Enhanced 10/100Base - TX to 100Base - FX Media Converter

Product Introduction & Benefits

The UT-021XE Media Converter is a cost - effective, feature-packed solution for expanding or extending an existing Ethernet/ Fast Ethernet network. The converter boasts enhanced with such features as remote loop back testing, auto - negotiation, and link fault signaling for total reliability, It also features seven DIP switches for manual activation of the enhanced features. This gives the UT-021XE the ability to be quickly integrated into a network configuration.

The UT-021XE can support a variety of fiber optic cables and connectors that can extend distances (up to 100km) as well as offering flexibility in the migration to 100Base - FX networks! Several converters can be simultaneously installed by using the UT-3012 12-slot 19" rack-mount chassis converter chassis.

UT-0215ETS

Ordering Information :

UT-0215ETS-20 (km) : Enhanced 10/100Base-TX to 100Base-FX Single Mode, Single Fiber, WDM Media Converter, Transmitter TX1310nm/RX1550nm, (SC Simplex, 20km)

UT-0215ERS-20 (km) : Enhanced 10/100Base-TX to 100Base-FX Single Mode, Single Fiber, WDM Media Converter, Receiver TX1550nm/RX1310nm, (SC Simpex, 20km)

UT-0215ETS-40 (km) : Enhanced 10/100Base-TX to 100Base-FX Single Mode, Single Fiber, WDM Media Converter, Transmitter TX1310nm/RX1550nm, (SC Simplex, 40km)

UT-0215ERS-40 (km) : Enhanced 10/100Base-TX to 100Base-FX Single Mode, Single Fiber, WDM Media Converter, Receiver TX1550nm/RX1310nm, (SC Simpex, 40km)

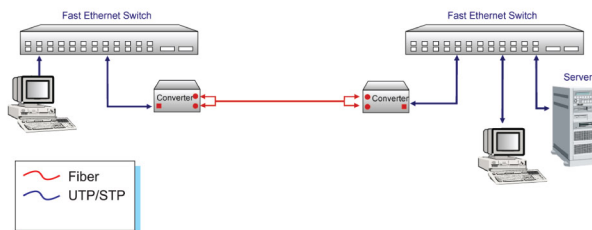* WDM Single Fiber Converters must be installed with Transmitter and Receiver in pairs

Main Features :

- Device DIP switches allow multiple configuration options
- Automatic MDI/MDI-X selection on RJ-45 port
- Auto-negotiation, NWay support on RJ-45
- Link Fault Signaling (LFS) Suitable for fedundantcy link
- Remote loop back test
- LEDs for at-a-glance device status
- Extends distances ranging from 2km (multi-mode fiber) to 100km (single mode fiber)
- Store-and-forward at full wire speed
- External power supply
- FCC Class A & CE approved.
- RoHS Compliant
- Included AC power adapter 220 VAC / 12 VDC, 1A

FCC Class A

CE Approval

Standard :

IEEE 802.3 (10BASE-T Ethernet);
IEEE 802.3u (100BASE-TX/FX Fast Ethernet)

Port :

UTP Connector : 1x RJ-45 type
Fiber Optic Connector : 1x SC or ST types (Only SC type for Single Mode)

Max Distance :

UTP : 100 meters (Category 5/5E or better)
Fiber Optic : 20 - 40km (Singlemode, Single Fiber, WDM)

Emissions :

FCC Part 15 of Class A & CE approved

Weight :

160 g

Dimensions :

109.2 x 73.8 x 23.4 mm (D x W x H)

Power Supply :

AC 100 ~ 240V 47/63Hz Input,
DC 12V 1A Output

Power Consumption :

2.8W

Temperature :

Operating : 0º C to 50º C
Storage : -25º C to 70º C

Humidity :

Operating : 10% to 80% RH
Storage : 5% to 90% RH

Unit LED :

100 : Green - Illuminated when data packets are being teansmitted at 100Mbps
LFS : Red - Illuminated when a break or disruption exists in copper or fiber links
LNK/ACT : Green - Illuminated indicates receiving link pulses from compliant device
　　　　　　 - Flashing to indicate data packets being sent / received
FDX/COL : Amber - Flashing to indicate unit is in full-duplex mode
　　　　　　　 - Flashing to indicate collision
PWR : Green - Illuminated to indicate unit is operating under normal power

Switches :

DIP 1 - Enables / disables auto-negotiation
DIP 2 - Copper port (RJ45) duplex mode; full-duplex or half-duplex
DIP 3 - Copper port (RJ45) data bit rate; 10Mbps or 100Mbps
DIP 4 - Fiber port duplex mode; full-duplex or half-duplex
DIP 5 - Enables / disables link fault signaling (LFS)
DIP 6 - Enables / disables local loop back (LLBK)
DIP 7 - Enables / disables remote loop back (RLBK)

Applications :

The following illustrates typical applications for the UT-021XE series. The actual distances will depend on several factors including the quality of cables used and the terminal equipment employed.

CATALOG MEDIA CONVERTER

UT-0216AI Series
10/100Base - TX to 100Base - FX Industrial Media Converter

UT-0216AI

Product Introduction & Benefits

UT-0216AI Series is 10/100Base-TX to 100Base-FX Industrial Fast Ethernet Media Converter. The UTP port cans operation at 10M or 100M application.

UT-0216AI Series is packaged in a special compact IP40 metal case that allows either DIN rail or panel mounting for easy installation at control cabinet. It provides an integrated power supply with a wide range of voltages for worldwide operation. It also offers dual-redundant, reversible polarity 12V DC to 48V DC power supply inputs for high availability applications requiring dual or backup power inputs.

Ordering Information :

UT-0216AI : 10/100Base-TX to 100Base-FX Multimode Industrial Media Converter, 2km

UT-0216AI-SM20 : 10/100Base-TX to 100Base-FX Singlemode Industrial Media Converter, 20km

UT-0216AI-SM40 : 10/100Base-TX to 100Base-FX Singlemode Industrial Media Converter, 40km

UT-0216AI-SM60 : 10/100Base-TX to 100Base-FX Singlemode Industrial Media Converter, 60km

UT-0216AI-SM80 : 10/100Base-TX to 100Base-FX Singlemode Industrial Media Converter, 80km

UT-0216AI-SM100 : 10/100Base-TX to 100Base-FX Singlemode Industrial Media Converter, 100km

UT-0216AI-SM120 : 10/100Base-TX to 100Base-FX Singlemode Industrial Media Converter, 120km
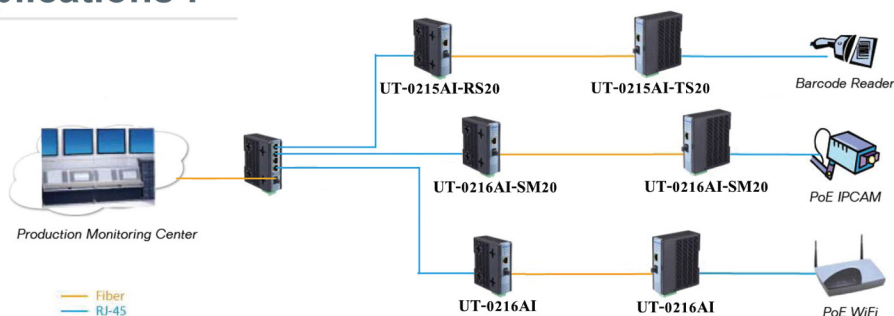
Main Features :

- Built-in efficient switching core to implement flow control and reduce broadcast packets
- Standard : IEEE802.3u 100BASE-FX/TX, IEEE802.3 10BASE-T, IEEE802.3x Flow Control.
- 10/100Base-TX can automatically identify the direct-line(MDI) and cross-line(MDIX), is compatible with Various cards, switches, HUB and other Ethernet devices
- It applies a store-and-forward mechanism to avoid packet loss and error frames
- Support wire-speed transmission and full-duplex flow control / half-duplex back pressure mode
- Support jumbo frame up to 9K(cut-through mode)
- 12V to 48V DC or 24V AC Wide power input, redundant power and reverse polarity protection
- -40 to 80°C operating temperature to meet a variety of complex environments
- IP40 protection standard for housing
- Power port and Ethernet port supports ESD protection and EFT protection
- DIN rail and panel mounting for easy installation
- Support dual-fiber multimode and single-mode
- Support DIP switches for operation mode setting

FCC Class A | CE Approval

Standard :

IEEE802.3u 100BASE-FX/TX (Fast Ethernet)
IEEE802.3 10BASE-T(Ethernet)
IEEE802.3x Flow Control

Port :

UTP/STP Connector : 1 x RJ45 Type
Fiber Optic Connector : 1 x SC Type

Design Level :

Industrial grade IP40 design standards

Access mode :

10/100Mbps

Wavelength :

1310 and 1550nm

Transmission distance :

Fiber Optic : 2km (Multimode)
              20 - 120km (Single mode)
UTP/STP : 100m (Category5/5E or better)

Conversion mechanism :

Store and Forward mode or Cut-Through mode

MAC address table :

1K

Buffer space :

Built in 288Kb RAM for data buffer

Flow control :

Full duplex : flow control
Half duplex : back pressure

BER :

$<10^{-9}$

MTBF :

50,000 hours

LED indicator :

Power Supply : PWR 1, PWR 2
UTP Port : POE1, L/A, 100M
Fiber Port : F1

Power supply :

Power Input Range : 12 ~ 48VDC/24VAC, 6-PIN Terminals,
Redundant dual power

Power consumption :

<3W

Operating temperature :

- 40~80ºC

Operating humidity :

5%~90% non-condensing

Storage Temperature :

- 40~85ºC

Storage humidity :

5%~90% non-condensing

Dimensions :

140mm (W)×110mm (D)×40mm (H)

Weight :

0.8kg

Applications :

UT-0215AI-RS20   UT-0215AI-TS20   Barcode Reader

UT-0216AI-SM20   UT-0216AI-SM20   PoE IPCAM

UT-0216AI   UT-0216AI   PoE WiFi

Production Monitoring Center

Fiber
RJ-45

UT-0215AI

Product Introduction & Benefits

UT-0215AI Series is 10/100Base-TX to 100Base-FX Industrial Fast Ethernet Media Converter. The UTP port cans operation at 10M or 100M application.

UT-0215AI Series is packaged in a special compact IP40 metal case that allows either DIN rail or panel mounting for easy installation at control cabinet. It provides an integrated power supply with a wide range of voltages for worldwide operation. It also offers dual-redundant, reversible polarity 12V DC to 48V DC power supply inputs for high availability applications requiring dual or backup power inputs.

Ordering Information :

UT-0215AI-TS20 : 10/100Base-TX to 100Base-FX Singlemode, Single Fiber, WDM Industrial Media Converter, Transmitter 20km, TX1310nm/RX1550nm, SC Simplex

UT-0215AI-RS20 : 10/100Base-TX to 100Base-FX Singlemode, Single Fiber, WDM Industrial Media Converter, Receiver 20km, RX1310nm/TX1550nm, SC Simplex

UT-0215AI-TS40 : 10/100Base-TX to 100Base-FX Singlemode, Single Fiber, WDM Industrial Media Converter, Transmitter 40km, TX1310nm/RX1550nm, SC Simplex

UT-0215AI-RS40 : 10/100Base-TX to 100Base-FX Singlemode, Single Fiber, WDM Industrial Media Converter, Receiver 40km, RX1310nm/TX1550nm, SC Simplex

Main Features :

- Built-in efficient switching core to implement flow control and reduce broadcast packets
- Standard : IEEE802.3u 100BASE-FX/TX, IEEE802.3 10BASE-T, IEEE802.3x Flow Control.
- 10/100Base-TX can automatically identify the direct-line(MDI) and cross-line(MDIX), is compatible with Various cards, switches, HUB and other Ethernet devices
- It applies a store-and-forward mechanism to avoid packet loss and error frames
- Support wire-speed transmission and full-duplex flow control / half-duplex back pressure mode
- Support jumbo frame up to 9K(cut-through mode)
- 12V to 48V DC or 24V AC Wide power input, redundant power and reverse polarity protection
- -40 to 80°C operating temperature to meet a variety of complex environments
- IP40 protection standard for housing
- Power port and Ethernet port supports ESD protection and EFT protection
- DIN rail and panel mounting for easy installation
- Support single-fiber single-mode
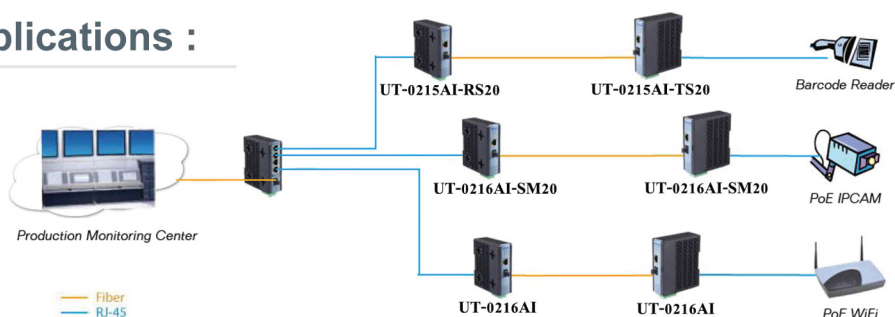- Support DIP switches for operation mode setting
  NWay Auto-negotiation support on RJ-45 Port (UTP Port)

FCC Class A

CE Approval

CATALOG MEDIA CONVERTER

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Standard :

IEEE802.3u 100BASE-FX/TX (Fast Ethernet)
IEEE802.3 10BASE-T(Ethernet)
IEEE802.3x Flow Control

Port :

UTP/STP Connector : 1 x RJ45 Type
Fiber Optic Connector : 1 x SC Simplex Type

Design Level :

Industrial grade IP40 design standards

Access mode :

10/100Mbps

Wavelength :

Transmitter : TX1310nm/RX1550nm
Receiver   : RX1310nm/TX1550nm

Transmission distance :

Fiber Optic : 20- 40km (Single mode)
UTP/STP : 100m (Category5/5E or better)

Conversion mechanism :

Store and Forward mode or Cut-Through mode

MAC address table :

1K

Buffer space :

Built in 288Kb RAM for data buffer

Flow control :

Full duplex : flow control
Half duplex : back pressure

BER :

$<10^{-9}$

MTBF :

50,000 hours

LED indicator :

Power Supply : PWR 1, PWR 2
UTP Port : POE1, L/A, 100M
Fiber Port : F1

Power supply :

Power Input Range : 12 ~ 48VDC/24VAC, 6-PIN Terminals,
Redundant dual power

Transmit Power (dBm) :

-7 ~ -14

Receive Sensitivity (dBm) :

24

Power consumption :

<3W

Operating temperature :

-40~80ºC

Operating humidity :

5%~90% non-condensing

Storage Temperature :

-40~85ºC

Storage humidity :

5%~90% non-condensing

Dimensions :

140mm (W)×110mm (D)×40mm (H)

Weight :

0.8kg

Applications :

UT-0215AI-RS20
UT-0215AI-TS20
Barcode Reader
UT-0216AI-SM20
UT-0216AI-SM20
PoE IPCAM
Production Monitoring Center
UT-0216AI
UT-0216AI
PoE WiFi
Fiber
RJ-45

CATALOG MEDIA CONVERTER

UT-1310 Series
10/100/1000Base-T to 1000Base-SX/LX (SFP) Converter

LINK®
American Standard

Product Introduction & Benefits

The UT-1310 media converter is specifically designed to offer fiber advantages for mission - critical networks like Telco/ISP backbones, cable operators, banking and enterprise networks.

The UT-1310 can reduce network downtime and increase Quality of Service levels. The converters are completely transparent when installed, so the network performs exactly the way it would do normally-only now, it can incorporate both copper and fiber mediums. This flexibility in cabling allows network managers to put fiber cables anywhere within a network without changing the arrangement of the copper-based Gigabit segments.

Their compact size allows the converters to be wall-mounted to save space. Several converters can be simultaneously installed by using the UT-3012 12-slot, 19" rack-mountable chassis.

The UT-1310 takes advantage of intelligent connection technology to support Auto-negotiation, thereby eliminating the hassle of manually configuring or monitoring settings.
This ensures plug-n-play operability.

UT-1310

UT-1314

Ordering Information :

UT-1310 : 10/100/1000Base-T to 1000Base-SX/LX (SFP) Converter, without SFP

UT-1314 : 10/100/1000Base-T to 1000Base-SX (SFP) Converter, with SFP(UT-9104)

UT-1314-10 : 10/100/1000Base-T to 1000Base-LX (SFP) Converter, with SFP(UT-9104-10)

UT-9104 : Mini GBIC, 1.25G SFP-type Multimode, 3.3V, 220/550m

UT-9104-10/30/50/70/110Km : Mini GBIC, 1.25G SFP-type Singlemode, 3.3V - 10/30/50/70/110km

Main Features :

Standards :
- Complies with IEEE 10/100Base-TX, IEEE 802.3ab 1000Base-T
- and IEEE 802.3z 1000Base-SX/LX standards

Interface :
- One 10/100/1000 Mbps Ethernet port
- Auto MDI/MDI-X support on RJ-45 port
- One SFP slot for Gigabit links
- Extends distances up to 220m for multi-mode SX
(110km with long-haul singlemode) under full-duplex mode

Management :
- Link Fault Signaling (LFS) Suitable for redundantcy link
- Alarm LED illuminates to indicate link failure
- Status LEDs for easy monitoring of device's status

Mechanical & Environmental :
- External power supply
- Chassis-compliant (internal power supply)
- FCC Class A & CE approved
- RoHS Compliant
- Included AC power adapter 220 VAC / 12 VDC, 1A

FCC Class A

CE Approval

CATALOG MEDIA CONVERTER

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Standards :

IEEE 802.3   10Base-T
IEEE 802.3u   100Base-TX
IEEE 802.3ab 1000Base-T
IEEE 802.3z   1000Base-SX/LX

Port :

UTP Connector : 1x RJ-45 type
Fiber Optic Connector : 1x SFP type

Max Distance :

UTP : 100 meters (Cat. 5/5e or beter)
Fiber Optic : SFP ; 220/550m, (Multi Mode)
               ; 10 - 110km, (Single Mode)

Emissions :

FCC Part 15 of Class A & CE approved

Weight :

150~160g

Dimensions :

109.2 x 73.8 x 23.4 mm (D x W x H)

Dip Switch :

DIP 1 - LFS : Enable/disable Link-Fault Singnaling (LFS)
DIP 2 - RSV : Reserve

Power Supply :

AC 100 ~ 240V 47/63Hz Input,
DC 12V 1A Output

Power Consumption :

5.3W

Temperature :

Operating : 0°C to 50°C
Storage : -20°C to 70°C

Humidity :

Operating : 10% to 80% RH
Storage : 5% to 90% RH

Unit LED :

1000 : Green - Illuminated when data packets are being transmitted at 1000Mbps
LFS : Red - Illuminated when failure occurs on fiber or copper link
LNK/ACT : Green - Illuminated when receiving link pulses from compliant devices
           - Flashing when data packets are being transmitted / received
PWR : Green - Illuminated for normal operation

Applications :

10/100/1000 M TX
Site A
UT-1310

Fiber Link
Distance up to 110 km
with UT-9104-110

Site B
UT-1310
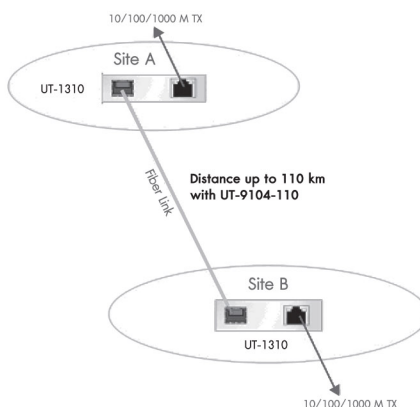
10/100/1000 M TX

The diagram on the left illustrates a typical application for the UT-1310 converter.

The actual distances will depend on several factors, including the quality of cables used and the terminal equipment employed.

CATALOG MEDIA CONVERTER

LINK®
American Standard

Product Introduction & Benefits

The UT-1316 media converter is specifically designed to offer fiber advantages for mission-critical networks like Telco/ISP back bones, cable operators, banking and enterprise networks. The UT-1316 can reduce network downtime and increase Quality of Service levels. The converters are completely transparent when installed, so the network performs exactly the way it would do normally-only now, it can incorporate both copper and fiber mediums.

This flexibility in cabling allows network managers to put fiber cables anywhere within a network without changing the arrangement of the copper-based Gigabit segments. Their compact size allows the converters to be wall-mounted to save space.

Several converters can be simultaneously installed by using the UT-3012 12-slot, 19" rack-mountable chasses. The UT-1316 takes advantage of intelligent connection technology to support Auto-negotiation, thereby eliminating the hassle of manually configuring or monitoring settings. This ensures plug-n-play operability.

UT-1316

Ordering Information :

UT- 1316 : 10/100/1000Base-T to 1000Base-SX Multi-mode, Media Converter (SC Connector, 220/550km)

UT- 1316SM : 10/100/1000Base-T to1000Base-LX Multi-mode, Media Converter (SC Connector, 10km)

Main Features :

- One 10/100/1000 Mbps Ethernet port
- Automatic MDI/MDI-X selection on RJ-45 port
- Auto-negotiation, NWay support on RJ-45
- One 1000Base-SX/LX for Gigabit links
- Link Fault Signaling (LFS) Suitable for redundantcy link
- Status LEDs for easy monitoring of device's status
- Extends distances ranging from 220/550m (multi-mode fiber) to 10km (single mode fiber)
- Store-and-forward at full wire speed
- External power supply
- FCC Class A & CE approved.
- RoHS Compliant
- Included AC power adapter 220 VAC / 12 VDC, 1A

FCC Class A   CE Approval

CATALOG MEDIA CONVERTER

UT-1316 Series Specifications :

Standards :
IEEE 802.3 (10BASE-T Ethernet);
IEEE 802.3u (100BASE-TX Fast Ethernet)
IEEE 802.3ab (1000BASE-T Gigabit Ethernet)
IEEE 802.3z (1000BASE-SX/LX Gigabit Ethernet)

Port :
UTP Connector : 1x RJ-45 type
Fiber Optic Connector : 1x SC types

Max Distance :
UTP : 100 meters (Category 5/5E or better)
Fiber Optic : 220/550m (Multimode)
                   10km (Singlemode)

Emissions :
FCC Part 15 of Class A & CE approved

Weight :
150 - 160 g

Dimensions :
109.2 x 73.8 x 23.4 mm (D x W x H)

Dip Switch :
DIP 1 - LFS : Enables / disables link fault signaling (LFS)
DIP 2 - RSV : Reserve

Power Supply :
AC 100 ~ 240V 47/63Hz Input,
DC 12V 1A Output

Power Consumption :
5.3W

Temperature :
Operating : 0°C to 50°C
Storage : -20°C to 70°C

Humidity :
Operating : 10% to 80% RH
Storage : 5% to 90% RH

Unit LED :
1000 : Green - Illuminated when data packets are being teansmitted at 1000Mbps
LFS : Red - Illuminated when a break or disruption exists in copper or fiber links
LNK/ACT : Green - Illuminated indicates receiving link pulses from compliant device
             - Flashing to indicate data packets being sent / received
PWR : Green - Illuminated to indicate unit is operating under normal power

Applications :
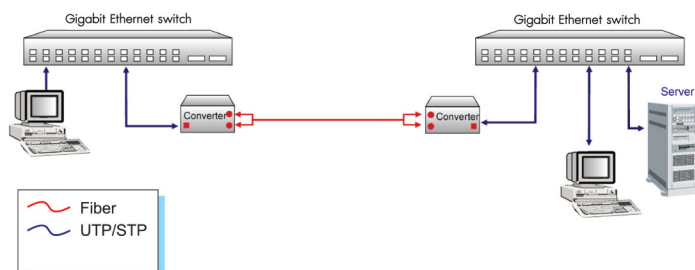
The following illustrates typical applications for the UT-1316 series. The actual distances will depend on several factors including the quality of cables used and the terminal equipment employed.

UT-3012

19" Rack-mount 12-slot Stand alone Media Converter Chassis

UT-3013

UT-3013D

UT-3012
(Media Converter not included)

Product Introduction & Benefits

The UT-3012 is a highly engineered product designed to offer a lifetime of operation. Incorporated in the chassis are three long life cooling fans to ensure a cool operating environment. Each fan is monitored and connected to the LED status panel mounted on the front. The LEDs indicates when power is supplied to each module and that the fans are functioning correctly. Ideal for mission critical networks such as Enterprises, Banks, the Military, etc.

The chassis comes with two high quality hot swappable power supply. Either power unit can be removed without disturbing the chassis operation - offering total efficiency, maximum redundancy and minimum down time. Each converter is supplied from a common shared power bus - but as an added precaution, each is individually protected in the event of a problem on the bus or from power surges. Each converter can be removed or loaded without powering down. The power supply also features a "trigger guard" to prevent the unit from being accidentally switching off.

Ordering Information :

UT-3012 : 19" Rack-Mount 12-slot Stand alone Media Converter Chassis (AC 100-240V)

UT-3013 : 75W AC Modular Power Supply with High MTBF for UT-3012 (AC 100-240V)

UT-3012D : 19" Rack-Mount 12-slot Stand alone Media Converter Chassis (DC -48V)

UT-3013D : 75W DC-48V Modular Power Supply for UT-3012D (DC -48V)

Main Features :

- Accommodates up to 12 media converters operating under different protocols
- Supports two load sharing, hot swappable power supplies
- ON/OFF trigger guard protection on power switch
- Three serviceable high volume cooling fans
- LED status panel with fan and slot and power LEDs
- Supports slot power isolation
- Supports 10/100/1000Base-TX/FX, ATM-155/622 and serial converters
- Prevents network downtime and protects your converter investments
- Available in AC 100 - 240V with AC Socket or DC -48V with terminal block
- RoHs Compliant

FCC Class A

CE Approval

Chassis Specs

Capacity :	Twelve (12) slots
Chassis :	Aluminum/steel
Power :	Two (2) power supplies, load sharing, hot swappable
LEDs :	3, red -for fan status,12, green -for slot power status, 1, red -for each power supply
Cooling :	Three 42.5 cfm rear-mount fans
Dimensions :	430 x 290 x 133 mm (L x W x H) (EIA 3U)
Weigh :	9 kg (with 12 converters, one power supply)

Power Supply Specs for AC (UT-3013)

|	
AC Input :	100-240V AC@ 47-63 Hz
DC Output :	Norm.+12V, Min.+11.88V, Max+12.12V
Load :	Min.0A, Full 6.4A
Total Reg. :	±1.0%, Rip.120 mV, Load 1.0%, Line 0.5%
Overload Protection :	All outputs protected against short circuit conditions-automatic recovery
Over Volts Protection :	Output level exceeding +13.2V causes shutdown-automatic recovery
Temperature :	Operation : 0ºC to 50ºC
	Storage : -55ºC to 85ºC
Humidity :	Operating : 10% to 80% RH
	Storage : 5% to 90% RH
EMI :	FCC Part 15 Class A & CE Safety UL 1950, CSA 234, 22.2, TUV En60950

Power Supply Specs for DC -48V (UT-3013D)

DC Input :	-48V ±10%
DC Output :	Norm.+12V, Min.+11.76V, Max+12.24V, 75 Watts
Load :	Min. 0A, Full 6.4A
Total Reg. :	±2.0%, Rip.120 mV, Load 2.0%, Line 1.0%
Overload Protection :	Outputs protected against short circuit conditions-automatic recovery
Over Volts Protection :	Output level exceeding +13.2V causes shutdown-automatic recovery
Temperature :	Operation : 0ºC to 50ºC
	Storage : -55ºC to 85ºC
Humidity :	Operating : 10% to 80% RH
	Storage : 5% to 90% RH

Fans Specs

Speed :	2510 rpm ±250, Delivery 42.5 ft3 Per Min.
Noise Level :	36.5 dB(A)
Bearing :	Precise ball bearing

Applications :
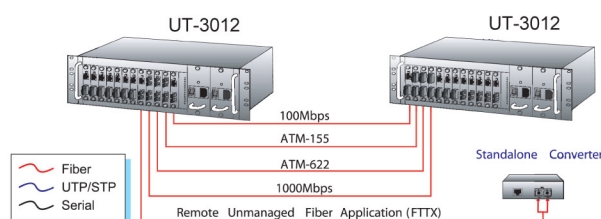
The following illustrates typical applications for the UT-3012 series. The actual distances will depend on several factors including the quality of cables used and the terminal equipment employed.

UT-0217 Series
10/100Base-TX to 100Base-FX IP CCTV Media converter

Product Introduction & Benefits

The UT-0217 Series Fast Ethernet IP CCTV Media Converter which provides an affordable solution for outdoor locations, especially designed for rugged and harsh industrial environments where require the extended temperature, longer distance and small space. By converting copper to fiber connection, the UT-0217 Series enables to extend Fast Ethernet connection over optical fiber links between two fast Ethernet twisted pair devices in distance up to 2km (multimode fiber) or 30km (single-mode fiber) without performance degradation.

This point-to-point product meets all requirements to extend LAN distances communicate with remotely located Ethernet enabled devices. Other than that, the UT-0217 Series is equipped with Link Fault Signaling (LFS) which is used to indicate whether the fiber has been cut; letting the user know there is a problem that needs to be fixed right away. The typical application for the UT-0217 Series can be used in places where hardened converters can be used for a long time such as IP Cams and Wi-Fi applications.

UT-0217

Ordering Information :

UT-0217 : 10/100 Base-TX to 100Base-FX Multimode IP CCTV Media Converter, 2Km, SC
UT-0217-SM30 : 10/100 Base-TX to 100Base-FX Single mode IP CCTV Media Converter, 30Km, SC

Main Features :

- One 10/100 Mbps Ethernet Port One
- 100Base-FX Fiber Port Auto MDI/MDI-X Support on RJ-45
- Extends distance up to 550m for Multi-mode SX under full duplex mode
- Distances of 110km with long-haul single-mode under full duplex mode
- Link Fault Signaling (LFS) Suitable for redundantcy link
- LFS Led Illuminates to indicate link failure
- Status LED's for easy monitoring of device status
- PWR : Illuminated for normal operation
- LFS : Illuminated when failure occurs on fiber or copper link
- LNK/ACT: Fiber / Copper Link
- Illuminated - when receiving link pulses from compliant devices
- Flashing - when data packets are being transmitted / received

FCC Class A
CE Approval

LINK ®
American Standard

Standards :

IEEE 802.3 (10BASE-T Ethernet);
IEEE 802.3u (100BASE-TX/FX Fast Ethernet)

Port :

UTP Connector : 1x RJ-45 type
Fiber Optic Connector : 1x SC or ST types (Only SC type for Single Mode)

Max Distance :

UTP : 100 meters (Category 5/5E or better)
Fiber Optic : 2km (Multimode)
30 - 100km (Singlemode)

Emissions :

FCC Part 15 of Class A & CE approved

Weight :

158 g

Dimensions :

109.2 x 73.8 x 23.4 mm (D x W x H)

Power Supply :

AC 100 ~ 240V 47/63Hz Input,
DC 12V 1A Output

Power Consumption :

2.8W

Temperature :

Operating : 0º C to 50º C
Storage : -20º C to 70º C

Humidity :

Operating : 10% to 80% RH
Storage : 5% to 90% RH

Unit LED :

100 : Green - Illuminated when data packets are being teansmitted at 100Mbps
LFS : Red - Illuminated when a break or disruption exists in copper or fiber links
LNK/ACT : Green - Illuminated indicates receiving link pulses from compliant device
- Flashing to indicate data packets being sent / received
FDX/COL : Amber - Flashing to indicate unit is in full-duplex mode
- Flashing to indicate collision
PWR : Green - Illuminated to indicate unit is operating under normal power

Switches :

DIP 1 - Enables / disables auto-negotiation
DIP 2 - Copper port (RJ45) duplex mode; full-duplex or half-duplex
DIP 3 - Copper port (RJ45) data bit rate; 10Mbps or 100Mbps
DIP 4 - Fiber port duplex mode; full-duplex or half-duplex
DIP 5 - Enables / disables link fault signaling (LFS)
DIP 6 - Enables / disables local loop back (LLBK)
DIP 7 - Enables / disables remote loop back (RLBK)

Mechanical :

Operating Temperature   -20°C to 60°C
Storage Temperature   -40°C to 85°C
Operating Humidity   10% to 80% RH
Storage Humidity   5% to 90% RH
Chassis Compliant
External Power adapter

Applications :

Fast Ethernet Switch   Fast Ethernet Switch

Converter   Converter   Server

Fiber
UTP/STP
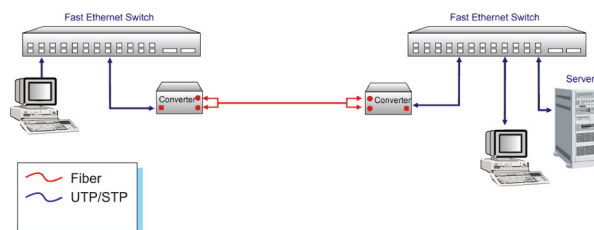
The diagram below illustrates a typical application for the UT-0217 Series converter. The actual distances will depend on several factors, including the quality of cables used and the terminal equipment employed.

Product Introduction & Benefits

UT-1317

The UT-1317 Series Gigabit IP CCTV Media Converter which provides an affordable solution for outdoor locations, especially designed for rugged and harsh industrial environments where require the extended temperature, longer distance and small space. By converting copper to fiber connection, the UT-1317 Series enables to extend Gigabit Ethernet connection over optical fiber links between two twisted pair devices in much long distances up to 500m (multimode fiber), 10km (single-mode fiber) or 110km (SFP module) without performance degradation.

This point-to-point product meets all requirements to extend LAN distances communicate with remotely located Ethernet enabled devices. Other than that, the UT-1317 Series is equipped with Link Fault Signaling (LFS) which is used to indicate whether the fiber has been cut; letting the user know there is a problem that needs to be fixed right away.

The typical application for the UT-1317 Series can be used in places where converters can be used for a long time such as IP Cams and Wi-Fi applications.

Ordering Information :

UT-1317 : 10/100/1000 to Gigabit SFP Multimode IP CCTV Media Converter, 220/550 m
**UT-1317SM** : 10/100/1000 to Gigabit SFP Singlemode IP CCTV Media Converter, 10K m

Main Features :

- One 10/100/1000 Mbps Ethernet port
- One 1000Base-SX/LX for Gigabit links
- Auto MDI/MDI-X Support on RJ-45
- Extends distance up to 550m for Multi-mode SX under full duplex mode
- Distances of 110km with long-haul single-mode under full duplex mode
- Link Fault Signaling (LFS) Suitable for redundantcy link
- LFS Led Illuminates to indicate link failure
- Status LED's for easy monitoring of device status
- PWR : Illuminated for normal operation
- LFS : Illuminated when failure occurs on fiber or copper link
- LNK/ACT : Fiber / Copper Link
- Illuminated - when receiving link pulses from compliant devices
- Flashing - when data packets are being transmitted / received

FCC Class A   CE Approval

Standards :

IEEE 802.3   10Base-T
IEEE 802.3u   100Base-TX
IEEE 802.3ab 1000Base-T
IEEE 802.3z   1000Base-SX/LX

Port :

UTP Connector : 1x RJ-45 type
Fiber Optic Connector : 1x SFP type

Max Distance :

UTP : 100 meters (Cat. 5/5e or beter)
Fiber Optic : SFP ; 220/550m, (Multi Mode)
                    ; 10 - 110km, (Single Mode)

Emissions :

FCC Part 15 of Class A & CE approved

Weight :

150~160g

Dimensions :

109.2 x 73.8 x 23.4 mm (D x W x H)

Dip Switch :

DIP 1 - LFS : Enable/disable Link-Fault Singnaling (LFS)
DIP 2 - RSV : Reserve

Power Supply :

AC 100 ~ 240V 47/63Hz Input,
DC 12V 1A Output

Power Consumption :

5.3W

Temperature :

Operating : 0°C to 50°C
Storage : -20°C to 70°C

Humidity :

Operating : 10% to 80% RH
Storage : 5% to 90% RH

Unit LED :

1000 : Green - Illuminated when data packets are being transmitted at 1000Mbps
LFS : Red - Illuminated when failure occurs on fiber or copper link
LNK/ACT : Green - Illuminated when receiving link pulses from compliant devices
                - Flashing when data packets are being transmitted / received
PWR : Green - Illuminated for normal operation

Mechanical :

Operating Temperature   -20°C to 60°C
Storage Temperature   -40°C to 85°C
Operating Humidity   10% to 80% RH
Storage Humidity   5% to 90% RH
Chassis Compliant
External Power adapter
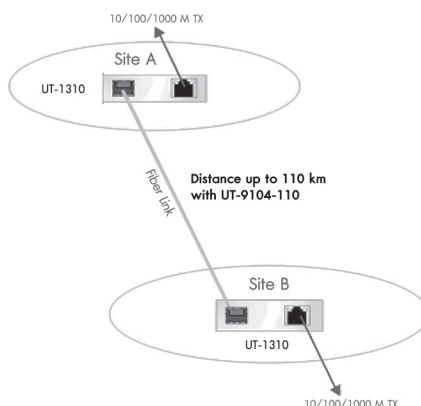
Applications :

The diagram below illustrates a typical application for the UT-1317 Series converter. The actual distances will depend on several factors, including the quality of cables used and the terminal equipment employed.

UT-1319 Series
5-port 10/100/1000BASE-T + 1 SFP Gigabit IP CCTV Converter Managed Hardened with PoE

Product Introduction & Benefits

The UT-1319 Series is a Lite Managed Hardened PoE Ethernet perfectly suited for extreme industrial environments and an ideal solution to deploy surveillance systems. Designed to meet the requirements of both power and data transmission over single Ethernet cable to PoE appliances and devices without the need for power outlets, eliminating additional cost of electrical cabling and circuits. UT-1319 Series is rugged case and hardened components withstand high degree of vibration, shock and wide operating temperatures from -20°c to 60°c.

features 5 10/100/1000Base-T ports and 1 Gigabit SFP slot to satisfy new and evolving network demands in longer distances via its fiber port. With 4 IEEE 802.3at compliant ports, each of them allows to supply up to 30W in controllable ways to satisfy the growing demand of high power consuming network devices such as WLAN AP, VoIP phones and IP surveillance cameras, and other powered devices in longer distances up to 100 meters with Cat 5 cables.

In addition, also facilitate with its build-in basic software features such as QoS, VLAN tagging, RMON and other network function & management to deliver a rock solid, adjustable network to down port networks, ensure impressive uptime even in the most challenging network conditions.

UT-1319

Ordering Information :

UT-1319 : 5-port 10/100/1000BASE-T + 1 SFP Gigabit Multimode IP CCTV Converter Managed Hardened with PoE

UT-1319-SM10 : 5-port 10/100/1000BASE-T + 1 SFP Gigabit Singlemode IP CCTV Converter Managed Hardened with PoE

Main Features :

- PoE Function : Total PoE power budget control Per port PoE enable/disable PoE Port power feeding priority Per PoE port power limit PD classification detection PoE Schedule PD live check PD reboot (with counter) Alarm (syslog, E-mail) PD (reboot & Alarm)

- Network Function : IGMP snooping (v1/v2/v3) Ethernet-like MIB (RFC 3635) Interface Group MIB (RFC 2863) RMON (RFC 2819)

- Network Management : Web-based management GUI with Password-Protected Access SNMP v1, v2c SNMP Trap Firmware upgrade by TFTP/HTTP/FTP Simple Network Time Protocol Web displays each port's an image Auto negotiation status Alarm / Status Surveillance E-mail Alarm Syslog

- Traffic Management and QoS : 4 QoS queues per port Traffic Classification Scheduler SP/WFQ/WRR Broadcast Storm Control Bandwidth Control IEEE 802.1Q tag-based Port-based VLAN MAC-based VLAN 4K-entry 256 static VLAN Table

FCC Class A

CE Approval

CATALOG MEDIA CONVERTER

Standards :

IEEE 802.3	10Base-T
IEEE 802.3u	100Base-TX
IEEE 802.3ab	1000Base-T
IEEE 802.3z	1000Base-SX/LX
IEEE 802.3x	Flow Control
IEEE 802.1p	Class of Service
IEEE 802.1q	VLAN Tagging
IEEE 802.1ab	LLDP
IEEE 802.3af	PoE
IEEE 802.3at	PoE plus

PoE Functions :

Up to 4 IEEE 802.3at devices powered
Supports PoE Power up to 30.8W for each PoE port
Auto detect powered device (PD)
Remote Power Feeding up to 100m

Power :

Input Voltage Isolation
Primary : 48V (44~60V DC)
Redundant : 48V (44~60V DC)
Connection DC-Power jack
                    6-pinTerminal block
Power input polarity protection
Power voltage drop alarm
Power consumption : 130W Max
Surge Protection   6KV
ESD Protection   8KV

Performance :

Switching Fabric	12Gbps
L2 Forwarding	8.93Mpps
Packet buffer size	4.1Mbit
MAC table size	8K
Static MAC address	256
Jumbo Frame size	10K

Throughput :

14,880pps to 10Mbps ports
148,800pps to 100Mbps ports
1,488,000pps to 1000Mbps ports

Mechanical :

Operating Temperature -20ºC to 60ºC
Storage Temperature   -40ºC to 85ºC
Operating Humidity   10% to 95% RH
Storage Humidity   5% to 90%RH

Dimensions :

136 x 31 x 110mm (D x W x H)

Weight :

395g

UT-9125 Series, SFP, 1.25G
1000Base-SX, 1000Base-LX, 1000Base-ZX SFP, Mini-GBIC

UT-9125-00

UT-9125-10

Product Introduction & Benefits

The LINK SFP Mini-GBIC Gigabit Ethernet module can install into LINK Media Converter or Switch products with SFP Mini-GBIC interface. The distance can be extended from 220/550 meters (Multimode), up to 80 kilometers (Singlemode).

The LINK SFP transceivers are hot-swappable and hot-pluggable. You can plug-in and out the transceiver to/from any SFP port without having to power down the Media Converter/Switch.

CISCO Compatible
Orther Brand Compatible Available

Ordering Information :

UT-9125-00 : 1000Base-SX, SFP 1.25G, 220/550m, Multimode, 850 nm

UT-9125-02 : 1000Base-LX, SFP 1.25G, 2km, Multimode, 1310 nm

UT-9125-10 : 1000Base-LX, SFP 1.25G, 10km, Singlemode, 1310 nm

UT-9125-20 : 1000Base-LX, SFP 1.25G, 20km, Singlemode, 1310 nm

UT-9125-40 : 1000Base-LX, SFP 1.25G 40km, Singlemode, 1310 nm

UT-9125-80 : 1000Base-ZX, SFP 1.25G, 80km, Singlemode, 1550 nm

Main Features :

- Compliant with IEEE802.3z Gigabit Ethernet standard
- Compliant with Fiber Channel standard
- Industry standard small form pluggable (SFP) package
- Duplex LC connector
- Compliant with multi Source Agreement
- Single power supply 3.3V
- TTL signal detect indicator
- Hot Pluggable
- Class 1 laser product complies with EN 60825-1
- Plug and Play Installation
- RoHS Compliant

FCC Class A

CE Approval

Part Number	Transmit Power (dBm)	Receive Sensitivity (dBm)	Wavelength (nm)	Operation Distance (m)				Input Voltage (V)	Connector
				OM1 62.5/125	OM2 50/125	OM3 50/125	SMF 9/125		
UT-9125-00	-8 to -4	-19	850	220	550	900	-	3.3	LC Duplex
UT-9125-02	-9 to -1	-19	1310	2,000	2,000	2,000	-	3.3	LC Duplex
UT-9125-10	-9.5 to -3	-23	1310	550*	550	550	10,000	3.3	LC Duplex
UT-9125-20	-8 to -4	-24	1310	-	-	-	20,000	3.3	LC Duplex
UT-9125-40	-4 to -1	-24	1310	-	-	-	40,000	3.3	LC Duplex
UT-9125-80	0 to +5	-24	1550	-	-	-	80,000	3.3	LC Duplex

* 550 m use with mode conditioning launch patch cord.

Temperature :

Operating : 0ºC to +70ºC
Storage : -40ºC to +85ºC

Humidity :

Operating : 10% to 95% RH
Storage : 5% to 95% RH

Safety Comply :

Class 1 Laser
Compliant 21 CFR 1040.10 and 1040.11
Compliant EN 60825-1

Applications :

High capacity I/O in Storage Area Networks, Network Attached Storage, and Storage Servers
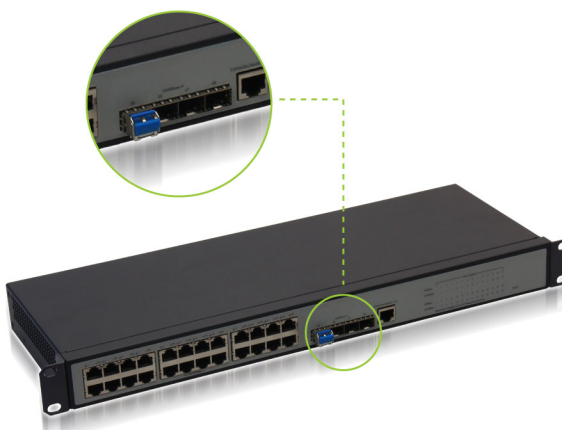
Switched fabric I/O such as ultra high bandwidth switches and routers

Data center cabling infrastructure

High density connections between networking equipment

Use with Media converter

Use with Switch

Product Introduction & Benefits

LINK UT-9125-T Series Copper Small Form Pluggable (SFP) transceivers is high performance, cost effective module compliant with the Gigabit Ethernet and 1000BASE-T standards as specified in IEEE 802.3-2002 and IEEE 802.3ab, which supporting 1000 Mbps data-rate up to 100 meters reach over unshielded twisted-pair category 5 cable. The module supports 1000 Mbps full duplex data-links with 5-level Pulse Amplitude Modulation (PAM) signals. All four pairs in the cable are used with symbol rate at 250Mbps on each pair. The module provides standard serial ID information compliant with SFP MSA, which can be accessed with address of A0h via the 2 wire serial CMOS EEPROM protocol.

The physical IC can also be accessed via 2 wire serial bus at address A0h.

UT-9125-T

CISCO Compatible
Orther Brand Compatible Available

Ordering Information :

UT-9125-TSD : 1000Base-T, SFP, 100m, Copper (UTP), SERDES
UT-9125-T : 10/100/1000Base-T, SFP, 100m, Copper (UTP), SGMII

Main Features :

- Compliant with IEEE802.3z Gigabit Ethernet standard
- Up to 1.25Gb/s data links
- Industry standard small form pluggable (SFP) package
- Hot-pluggable SFP footprint
- Temperature range 0°C to +70°C
- Fully metallic enclosure for low EMI
- Low power dissipation (1.05 W typical)
- Hot Pluggable
- Compact RJ-45 connector assembly
- Access to physical layer IC via 2-wire serial bus
- 1000BASE-T operation in host systems with SERDES interface
- 10/100/1000Mbps compliant in host systems with SGMII interface

FCC Class A

CE Approval

CATALOG MEDIA CONVERTER

25

PARAMETER	SYMBOL	MIN	TYP	MAX	UNIT	NOTES/CONDITION
Data Rate	BR	10	-	1,000	Mb/sec	IEEE 802.3 compatible. See Notes 2 through 4 below
Cable Length	L	-	-	100	m	Category 5 UTP. BER $<10^{-12}$

* 550 m use with mode conditioning launch patch cord.

Temperature :

Operating : 0ºC to +70ºC
Storage : -40ºC to +85ºC

Humidity :

Operating : 10% to 95% RH
Storage : 5% to 95% RH

Applications :

High capacity I/O in Storage Area Networks, Network Attached Storage, and Storage Servers
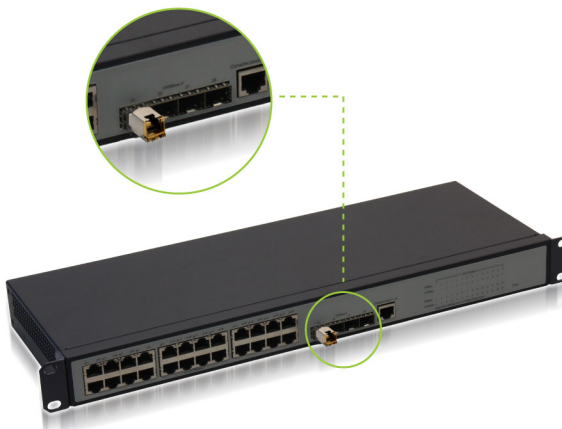
Switched fabric I/O such as ultra high bandwidth switches and routers

Data center cabling infrastructure

High density connections between networking equipment

Use with Media converter

Use with Switch

LINK® American Standard

UT-9113-20

UT-9114-20

EMC :

Most equipment utilizing high-speed transceivers will be required to meet the following requirements:
1) FCC in the United States
2) CENELEC EN55022 (CISPR 22) in Europe

To assist the customer in managing the overall equipment EMC performance, the transceivers have been designed to satisfy FCC class B limits and provide good immunity to radio-frequency electromagnetic fields.

Eye Safety :

The transceivers have been designed to meet Class 1 eye safety and comply with EN 60825-1

Ordering Information :

UT-9113-20/40/60/80 : 1.25G, WDM, Singlemode, Tx 1310/RX 1550 nm
UT-9114-20/40/60/80 : 1.25G, WDM, Singlemode, Tx 1550/RX 1310 nm

Main Features :

- Multi Data Rate: from 125M to 1.25Gbps, NRZ
- Single +3.3V Power Supply
- RoHS Compliant and Lead-free
- AC/AC Differential Electrical Interface
- Compliant with Multi-Source Agreement (MSA) Small Form Factor Pluggable (SFP)
- Compliant with SFF-8472 Digital Diagnostic
- Single LC Connector
- Compliance with specifications for IEEE-802.3z Gigabit Ethernet at 1.25 Gbps
- Compliance with ANSI specifications for Fibre Channel applications at 1.06 Gbps
- Eye Safety : Designed to meet Laser Class 1 comply with EN60825-1

FCC Class A | CE Approval

CATALOG MEDIA CONVERTER

Model Number	Operating Temperature. & Monitor Function	Distance	LD Type & Wavelength	Output Power	Sensitivity
UT-9113-20	0~70ºC	20 km	1310 nm / 1550 nm	-8 ~ -3 dBm	≦-23 dBm
UT-9114-20			1550 nm / 1310 nm		
UT-9113-40	0~70ºC	40 km	1310 nm / 1550 nm	-3 ~ +2 dBm	≦-23 dBm
UT-9114-40			1550 nm / 1310 nm		
UT-9113-60	0~70ºC	60 km	1490 nm / 1550 nm	-5 ~ 0 dBm	≦-24 dBm
UT-9114-60			1550 nm / 1490 nm		
UT-9113-80	0~70ºC	80 km	1510 nm / 1570 nm	-1~ +4 dBm	≦-25 dBm
UT-9114-80			1570 nm / 1510 nm		

* 550 m use with mode conditioning launch patch cord.
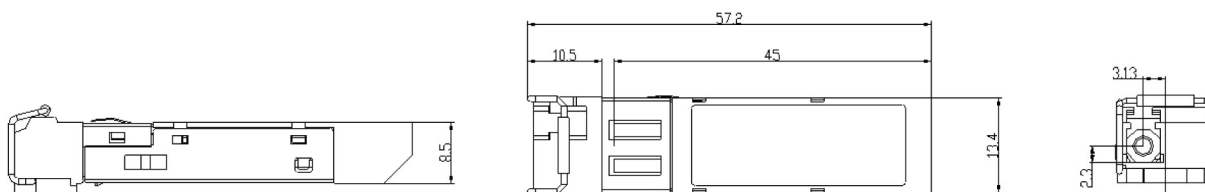
Temperature :

Operating : 0ºC to +70ºC
Storage : -40ºC to +85ºC

Humidity :

Operating : 10% to 95% RH
Storage : 5% to 95% RH

Safety Comply :

Class 1 Laser
Compliant 21 CFR 1040.10 and 1040.11
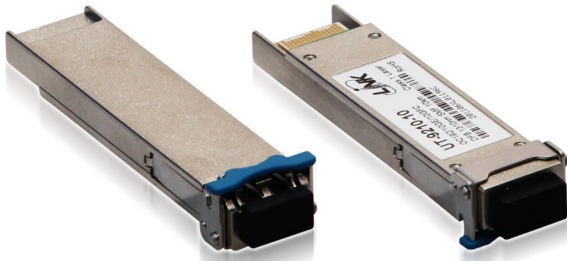Compliant EN 60825-1

Mechanical Dimensions :

Units in mm

All dimensions are ±0.2mm unless otherwise specified

Product Introduction & Benefits

The LINK XFP 10Gigabit Ethernet module can install into Switch products with XFP interface.

The distance can be extended from 300 meters (Multimode), up to 80 kilometers (Singlemode).

The LINK XFP transceivers are hot - swappable and hot - pluggable.

You can plug-in and out the transceiver to/from any XFP port with out having to power down the Switch.

UT-9210-10

WARRANTY 2 YEARS

RoHS - WEEE Compliant

CISCO Compatible
Orther Brand Compatible Available

Ordering Information :

XFP, 10G

UT-9210-00 : 10GBase-SR, XFP, 10G, 300m, Multimode, 850 nm

UT-9210-10 : 10GBase-LR, XFP, 10G, 10km, Singlemode, 1310 nm

UT-9210-40 : 10GBase-ER, XFP, 10G, 40km, Singlemode, 1550 nm

UT-9210-80 : 10GBase-ZR, XFP, 10G, 80km, Singlemode, 1550 nm

Main Features :

- Compliant with IEEE802.3ae 10Gigabit Ethernet standard
- Compliant with Fiber Channel standard
- Compliant with XFP Multi Source Agreement (MSA)
- 850nm VCSEL or 1310nm DFB transmitter, PIN photo-detector
- All-metal housing for superior EMI performance
- Low power consumption, Single +3.3V Power supply
- Duplex LC and Hot pluggable
- Advanced firmware allow customer system encryption information to be stored in transceiver
- XFI Electrical Interface with AC Coupling
- Plug and Play Installation
- RoHS Compliant

CATALOG MEDIA CONVERTER

FCC
Class A

CE
Approval

UT-9210 Series Specifications :

Part Number	Transmit Power (dBm)	Receive Sensitivity (dBm)	Wavelength (nm)	Operation Distance (m)				Input Voltage (V)	Connector
				OM1 62.5/125	OM2 50/125	OM3 50/125	SMF 9/125		
UT-9210-00	-5 to -1	-11	850	33	82	300	-	3.3	LC Duplex
UT-9210-10	-5 to -0.5	-15	1310	-	-	-	10,000	3.3	LC Duplex
UT-9210-40	-1 to +2	-15	1550	-	-	-	40,000	3.3	LC Duplex
UT-9210-80	0 to +3	-25	1550	-	-	-	80,000	3.3	LC Duplex

Temperature :

Operating : 0ºC to +70ºC
Storage : -40ºC to +85ºC

Humidity :

Operating : 10% to 95% RH
Storage : 5% to 95% RH

Safety Comply :

Class 1 Laser
Compliant 21 CFR 1040.10 and 1040.11
Compliant EN 60825-1

Applications :

High capacity I/O in Storage Area Networks, Network Attached Storage, and Storage Servers

Switched fabric I/O such as ultra high bandwidth switches and routers

Data center cabling infrastructure

High density connections between networking equipment

Product Introduction & Benefits

The LINK SFP+ 10Gigabit Ethernet module can install into Switch products with SFP+ interface.

The distance can be extended from 300 meters (Multimode), up to 80 kilometers (Singlemode).

The LINK SFP+ transceivers are hot - swappable and hot-pluggable.

You can plug-in and out the transceiver to/from any SFP+ port without having to power down the Switch.

UT-9310-10

CISCO Compatible
Orther Brand Compatible Available

Ordering Information :

SFP+, 10G

UT-9310-00 : 10GBase-SR, SFP+, 10G, 300m, Multimode

UT-9310-10 : 10GBase-LR, SFP+, 10G, 10km, Singlemode

UT-9310-40 : 10GBase-ER, SFP+, 10G, 40km, Singlemode

UT-9310-80 : 10GBase-ZR, SFP+, 10G, 80km, Singlemode

Main Features :

- Compliant with IEEE802.3ae 10Gigabit Ethernet standard
- Compliant with Fiber Channel standard
- Compliant with SFP+ Multi Source Agreement (MSA)
- 850nm VCSEL or 1310nm DFB transmitter, PIN photo-detector
- All-metal housing for superior EMI performance
- Low power consumption, Single +3.3V Power supply
- Duplex LC and Hot pluggable
- Advanced firmware allow customer system encryption information to be stored in transceiver
- Cost effective SFP+ solution, enables higher port densities and greater bandwidth
- Plug and Play Installation
- RoHS Compliant

FCC Class A
CE Approval

CATALOG MEDIA CONVERTER

UT-9310 Series Specifications :

Part Number	Transmit Power (dBm)	Receive Sensitivity (dBm)	Wavelength (nm)	Operation Distance (m)				Input Voltage (V)	Connector
				OM1 62.5/125	OM2 50/125	OM3 50/125	SMF 9/125		
UT-9310-00	-5 to -1	-12	850	33	82	300	-	3.3	LC Duplex
UT-9310-10	-5 to -0.5	-15	1310	-	-	-	10,000	3.3	LC Duplex
UT-9310-40	-1 to +2	-15	1550	-	-	-	40,000	3.3	LC Duplex
UT-9310-80	0 to +3	-24.5	1550	-	-	-	80,000	3.3	LC Duplex

Temperature :

Operating : 0ºC to +70ºC
Storage : -40ºC to +85ºC

Humidity :

Operating : 10% to 95% RH
Storage : 5% to 95% RH

Safety Comply :

Class 1 Laser
Compliant 21 CFR 1040.10 and 1040.11
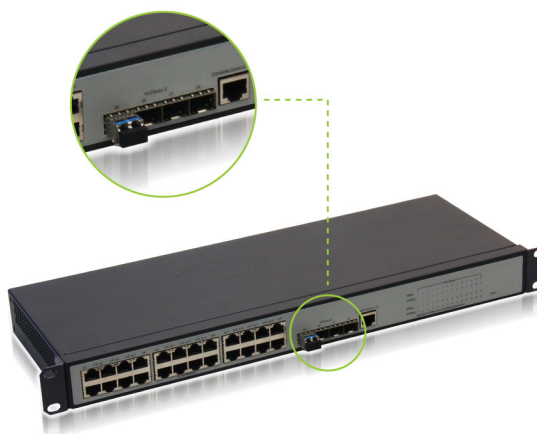Compliant EN 60825-1

Applications :

High capacity I/O in Storage Area Networks, Network Attached Storage, and Storage Servers

Switched fabric I/O such as ultra high bandwidth switches and routers

Data center cabling infrastructure

High density connections between networking equipment

Use with Switch

CATALOG MEDIA CONVERTER

UT-960X Series, SFP+ CABLE, 10G

Product Introduction & Benefits

The LINK SFP+ cable assemblies are high performance, cost effective I/O solutions for 10Gb Ethernet and High density connections between networking e10G fibre Channel applications. SFP+ copper modules allow hardware manufactures to achieve high port density, configurability and utilization at a very low cast and reduced power budget. The high speed cable assemblies meet and exceed Gigabit Ethernet and Fibre Channel industry standard requirements for performance and reliability.

UT-960X

Main Features :

CISCO Compatible
Orther Brand Compatible Available

- Compliant with IEEE802.3ae 10Gigabit Ethernet standard
- Compliant with Fiber Channel standard
- Compliant with SFP+ Multi Source Agreement (MSA)
- All-metal housing for superior EMI performance
- Low power consumption, Single +3.3V Power supply
- Plug and Play Installation, RoHS Compliant

Ordering Information :

Passive :

UT-9601 : 10G SFP+ Copper Cable Assembly, Passive, 1m

UT-9603 : 10G SFP+ Copper Cable Assembly, Passive, 3m

UT-9605 : 10G SFP+ Copper Cable Assembly, Passive, 5m

UT-9607 : 10G SFP+ Copper Cable Assembly, Passive, 7m

UT-9610 : 10G SFP+ Copper Cable Assembly, Passive, 10m

Active :

UT-9605A : 10G SFP+ Copper Cable Assembly, Active, 5m

UT-9607A : 10G SFP+ Copper Cable Assembly, Active, 7m

UT-9610A : 10G SFP+ Copper Cable Assembly, Active, 10m

UT-9615A : 10G SFP+ Copper Cable Assembly, Active,15m

Temperature :
Operating : 0ºC to +70ºC
Storage : -40ºC to +85ºC

Humidity :
Operating : 10% to 95% RH
Storage : 5% to 95% RH

Safety Comply :
FCC and CE

Applications :

High capacity I/O in Storage Area Networks, Network Attached Storage, and Storage Servers Switched fabric I/O such as ultra high bandwidth switches and routers Data center cabling infrastructure High density connections between networking equipment

FCC Class A

CE Approval

Product Introduction & Benefits

The UT-400X converter is a solid solution for applications that require a reliable link from remote terminals to host computers. The unit offers cost-efficiency for extending to distances ranging from 2km (multi-mode) to 120km (long-haul, single-mode fiber). Together with its simple-to-setup-and-install characteristics, the converter makes it easy to combine the advantages of fiber technology within an RS-232 serial-based network.

By facilitating the integration of the existing serial with newer fiber - optic cabling, the UT- 400x represents a cost - effective solution for network administrators eager to keep costs down when upgrading.

The converter is ideal for connecting data - communication devices situated in manufacturing - intensive environments where electromagnetic and radio - frequency interference is a major concern. Data integrity is also assured due to the characteristics of fiber-optic cable that make any leakage transmission detectable.

UT-4006

Ordering Information :

UT-4004 : RS-232 to Multimode Fiber Media Converter (ST Connector, 2km)

UT-4006 : RS-232 to Multimode Fiber Media Converter (SC Connector, 2km)

UT-4006SM-30/60/100/120 : RS-232 to Singlemode Fiber Media Converter (SC Connector, 30/60/100/120km)

Main Features :

- Complies with EIA/TIA-232, EIA/TIA- 574 & CCITT V.28 standards
- Supports asynchronous data transfer rate up to 115.2 Kbps
- 35mm DIN-rail mounted
- LED status indicators for power (PWR), link (LNK) And receive (RCV)
- Available ST/SC connectors
- External power supply
- Chassis compliant (internal power supply)
- FCC Class A & CE approved
- RoHS Compliant
- Included AC power adapter 220 VAC / 12 VDC, 1A

FCC Class A

CE Approval

UT-400X Series Specifications :

Standard : EIA/TIA-232, EIA/TIA - 574 & CCITT V.28

Port :
Copper Connector : 1x serial RS-232 (DB-9 Male)
Fiber Optic Connector : 1x ST or SC type (only SC type for Single Mode)

Max Distance :
Copper : 15 meters
Fiber Optic : 2km (Multimode)
          30 - 120km (Singlemode)

Data Rates : Serial : 115.2 kbps (asynchronous)

Emissions : FCC Part 15 of Class A & CE approved

Weight : 280 g

Dimensions : 109.2 x 90 x 31.5 mm (D x W x H)

Configuration :
Parity : none, even, odd
Data Bits : 7, 8
Stop Bits : 1, 2 (Non-parity Only)

Power : Power Input : 9~32V DC, external power adapter

Temperature :
Operating : 0ºC to 50ºC
Storage : -20ºC to 80ºC

Humidity :
Operating : 10% to 80% RH
Storage : 5% to 90% RH

Unit LED :
PWR : Green - Illuminated for normal operation
LNK : Green - Illuminated when receiving link pulse from compliant device
RCV : Amber - Illuminated when receiving packets from DTE or DCE

Applications :

Automatic Teller Machines

ATM   Banking System   Serial   UT-4006   Fiber   UT-4006   Serial   ATM
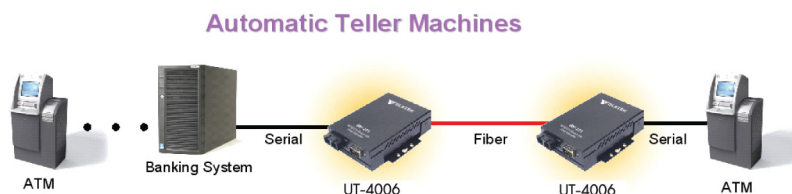
UT-400X Serial Converter is suitable for commercial use like Point-of-Sale or ATM networking as illustrated right.

Product Introduction & Benefits

This unit offers cost - efficiency for extending distances to between 2km (multi-mode fiber) and 120km (single-mode fiber). The UT-420X enables network managers to install fiber cabling anywhere within the existing network environment -- without the removal, replacement or modification of existing copper - based RS-422/485 infrastructure. Plus, it is capable of 4-wire and 2-wire operations via DIP switch.

Simply use the DIP switch to adapt to different cabling environments (e.g. 4-wire or 2-wire). The converter is ideal for connecting data communication devices situated in manufacturing-intensive environments where electromagnetic and radio-frequency interferenceis a major concern. Data integrity is also assured due to the characteristics of fiber-optic cables that make any leakage of transmission detectable.

UT-4206

Ordering Information :

UT-4204 : RS-422/485 to Multimode Fiber Media Converter (ST Connector, 2km)

UT-4206 : RS-422/485 to Multimode Fiber Media Converter (SC Connector, 2km)

UT-4206SM-30/60/100/120 : RS-422/485 to Singlemode Fiber Media Converter (SC Connector, 30/60/100/120km)

Main Features :

- Complies with EIA/TIA-422, EIA/TIA-485
- Supports asynchronous data transfer rate of up to 115.2 kbps
- Supports 4-wire full and 2-wire asynchronous data transmission
- DIP switch enable / disable functions
- Available ST/SC connector
- LED status indicators for system monitoring
- DIP switch-enabled "terminator"
- 35mm DIN RAIL mounted
- External power supply
- Chassis compliant (internal power supply)
- FCC Class A & CE approved
- RoHS Compliant
- Included AC power adapter 220 VAC / 12 VDC, 1A

FCC Class A

CE Approval

Standard :   EIA/TIA-422, EIA/TIA- 485

Port :
Copper Connector : 1x serial RS-422/485 (Terminal Block)
Fiber Optic Connector : 1x ST or SC type (only SC type for Single Mode)

Max Distance :
Copper : 1200 meters
Fiber Optic : 2km, (Multi Mode)
                 30 - 120km, (Single Mode)

Data Rates :   Serial : 115.2 kbps (asynchronous)

Emissions :   FCC Part 15 of Class A & CE approved

Weight :   280 g

Dimensions :   109.2 x 90 x 31.5 mm (D x W x H)

DIP Switches :
DIP1 : N/A
DIP2 : N/A
DIP3 : Enable / disable 2-wire/4-wire mode
DIP4 : Enable / disable terminator (TMR)

Power :   Power Input : 9 ~ 32V DC, external power adapter

Temperature :
Operating : 0ºC to 50ºC
Storage : -20ºC to 80ºC

Humidity :
Operating : 5% to 90% RH
Storage : 0% to 80% RH

Unit LED :
PWR : Green - Illuminated for normal operation
LNK : Green - Illuminated when fiber is properly connected
RCV : Amber - Illuminated for receiving packets from RS-422/485 Device

Applications :

- Industrial/Factory/Laboratory automation SCADA systems Self-service banking systems
- Factory robots and HVAC control systems
- Wafer fabrication systems
- Point of Sale (POS) systems
- Security cameras or other remote distributed serial devices
- Any application where ruggedness, durability and shock/vibration - proof qualities are required

CATALOG MEDIA CONVERTER

WARRANTY
5 YEARS
LINK FOR THE PERFECT CABLING

LINK®
American Standard

Distributed by